

PROJECT NUMBER: 2307
PROJECT TITLE: Flavor Investigation/Processed Tobacco
PROJECT LEADER: W. R. Raymond
PERIOD COVERED: November, 1988

I. FLAVOR INVESTIGATION:

- A. Objective: To provide analytical support for activities related to development and application of flavoring materials.
- B. Results:
1. Analytical Support: Qualitative and quantitative A/C and casing composition data were provided for formula transmittals for Famous and Merit Lights (Japan). Casings and flavors were qualitatively and quantitatively analyzed for Marlboro Standardization Run #6 and for factory trials of Natural Marlboro Limited, Famous, Merit Lights (Japan) and Half-Pint. Analytical characterization continued of flavor systems for project ART. Semi-works monitoring and complete flavor analytical testing were conducted for POL 3609 cigarettes. Qualitative GC profile data and GCMS component identifications were provided for Hilton A/C.
 2. A collaborative study with R&D Engineering is in progress to optimize MF A/C spray application in Semi-works. Thus far, five of six planned large-scale A/C spray runs have been conducted, varying the rate of filler throughput. Flavor Development has provided analytical data for anethole content in A/C and on filler sampled at the A/C cylinder exit, from the final weigh belt and from the cut filler silo (78 samples total). The sixth run and associated analyses will be completed this week.
 3. Scale-up of Cooked Flavor Casing for ART to 25 gallon batch production has been completed in Semi-works. Specification data have been generated and plans are in progress to conduct 100-150 gallon production trials at the Flavor Center.

II. PROCESSED TOBACCO:

- A. Objective: To develop basic and applied knowledge for the purpose of improvement or selective modification of subjective properties of processed tobaccos.
- B. Results:

Control and test cigarettes for POL 3609 (testing utilization of post-ART stem in RL's) were remade, approved analytically and subjectively, and shipped November 17. The POL is scheduled to close out on December 16. At the substitution level being tested in RL's (1/6 of Bright stem), utilization of factory post-ART stem is projected to be ca. 50%. Evaluations continue to determine whether the remainder can be utilized in RCB.